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TITLE: PRODUCTION OF COLD ROLLED STEEL SHEET HAVING EXCELLENT ENAMEL ADHESION

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ABSTRACT:

PURPOSE: To produce easily a cold-rolled steel sheet having excellent enamel adhesion by plating Ni onto the surface of the steel sheet, which is subjected to cold rolling to a final plate thickness, to an adequate film thickness in an Ni plating bath contg. a specific amt. of S content prior to recrystallization annealing.

CONSTITUTION: The surface of a steel sheet is subjected to thin plating of Ni at 0.02i-2.5g/m2 thickness of the Ni plating film in an Ni plating bath incorporated therein with 0.01i-5.0wt% S cotent prior to recrystallization annealing after cold rolling to a final plate thickness. The plated Ni is softened by recrystallization annealing such as box annealing, continuous annealing, decarburization annealing of the plated steel sheet to diffuse and penetrate a part thereof into the surface layer of the steel sheet. The steel sheet for enamel having good enamel adhesion irrespectively of presence or absence of re-enameling is thus obtd. and the omission of the pretreatment prior to an enamel glazing stage is made possible.

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